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Agricultural Memorandum No 642
Parasitic Gastro-Enteritis - Effect of Wet Days

L P Smith

The analysis of Ag. Mem. 641 was repeated using wet days as the rainfall parameter.

Similar conclusions were reached, namely that return date was an adequate representation of the weather of the previous autumn, and that the June - August raindays were the important summer factor.

The best fit was

Rating = 0.23C + 0.28B - 4.47

with a multiple regression of 0.93 and partials 0.84 and 0.61
where C = raindays June - August
B = return date (as in Ag. Mem. 641)

Details are given in the Appendix.

Any comments or suggestions on this paper should be referred to the author.

Meteorological Office
Bracknell

April 1975.

FH2B

APPENDIX

Year	June–August Wet Days	Return Date	Disease Rating	
			Actual	Estimated
1954	34.7	8.1	6	5.8
1955	16.7	2.7	1	0.1
1956	39.0	9.8	6	7.2
1957	31.1	0.9	3	2.9
1958	40.5	5.3	7	6.3
1959	21.5	2.2	1	1.1
1960	37.1	8.7	8	6.5
1961	23.7	3.3	1	1.9
1962	22.4	7.9	3	2.9
1963	37.1	6.7	5	5.9
1964	24.7	5.5	2	2.7
1965	34.9	10.0	7	6.4
1966	36.5	3.2	5	4.8
1967	25.9	2.9	2	2.3
1968	27.3	3.6	5	2.8
1969	24.3	1.9	1	1.6
Independent Test				
1970	26.2	8.2	1	3.9
1971	28.3	8.0	3	4.3
1972	26.9	7.9	4	3.9
1973	21.9	9.1	5	3.1
1974	30.9	5.6	6	4.2